Title (en)

MULTIPLE RESISTIVE SENSORS FOR A CORIOLIS EFFECT MASS FLOWMETER

Title (de)

ANORDNUNG VON MEHREREN RESISTIVEN MESSWERTGEBERN FÜR EINEN CORIOLIS-MASSENDURCHFLUSSMESSER

Title (fr)

CAPTEURS RESISTIFS MULTIPLES POUR UN DEBITMETRE MASSIQUE A EFFET DE CORIOLIS

Publication

EP 1000324 B1 20030806 (EN)

Application

EP 98925124 A 19980602

Priority

- US 9811183 W 19980602
- US 90168697 A 19970728

Abstract (en)

[origin: WO9905480A1] A circuit for utilizing multiple resistive sensors (109, 110) and in particular resistive temperature sensors while minimizing the number of conductors (308, 309, 310) necessary to measure the multiple sensors. The multiple sensors are connected in series and the voltage is measured at each node in the series connection of sensors. A switching device (F0) then opens to remove one of the sensors from the voltage supply (5v) allowing a measurement to be made of the resistance of the conductor between the temperature sensors and a remote transmitter (20). The measured sensor resistances are then compensated with the measured conductor resistance to obtain a conductor-length compensated resistance for each of the multiple resistive sensors.

IPC 1-7

G01F 1/84; G01K 1/02; G08C 15/08

IPC 8 full level

G01F 1/84 (2006.01); **G01K 1/02** (2006.01); **G08C 15/08** (2006.01)

CPC (source: EP KR US)

G01F 1/84 (2013.01 - KR); **G01F 1/8409** (2013.01 - EP US); **G01F 1/8431** (2013.01 - EP US); **G01F 1/8436** (2013.01 - EP US); **G01F 1/8495** (2013.01 - EP US); **G01F 15/024** (2013.01 - EP US); **G01K 1/026** (2013.01 - EP US); **G01K 7/206** (2013.01 - EP US)

Cited by

CN107290014A

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

WO 9905480 A1 19990204; AR 012510 A1 20001018; AU 745920 B2 20020411; AU 7714498 A 19990216; BR 9811489 A 20000919; BR 9811489 B1 20090505; CA 2294936 A1 19990204; CA 2294936 C 20030617; CN 1195970 C 20050406; CN 1265190 A 20000830; DE 69816995 D1 20030911; DE 69816995 T2 20040609; EP 1000324 A1 20000517; EP 1000324 B1 20030806; HK 1028807 A1 20010302; ID 23981 A 20000614; JP 2001511549 A 20010814; JP 4025504 B2 20071219; KR 100357330 B1 20021018; KR 20010022376 A 20010315; MY 119929 A 20050830; PL 187953 B1 20041130; PL 338424 A1 20001106; RU 2213329 C2 20030927; US 5929344 A 19990727

DOCDB simple family (application)

US 9811183 W 19980602; AR P980103364 A 19980710; AU 7714498 A 19980602; BR 9811489 A 19980602; CA 2294936 A 19980602; CN 98807611 A 19980602; DE 69816995 T 19980602; EP 98925124 A 19980602; HK 00108134 A 20001215; ID 20000378 A 19980602; JP 2000504421 A 19980602; KR 20007000955 A 20000128; MY PI9803418 A 19980727; PL 33842498 A 19980602; RU 2000104841 A 19980602; US 90168697 A 19970728